PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

REC'D I 1 AUD RAAG

(PCT Article 36 and Rule 70)

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	plicant's o	or agent's fi	le reference	FOR FURTHER	ACTION	See Form PCT/IPEA/416			
	International application No. PCT/US2004/024949			International filing dat 30.07.2004	e (day/month/year)	Priority date (day/month/year) 29.08.2003			
Co	International Patent Classification (IPC) or national classification and IPC CO8F10/00								
1	Applicant DOW GLOBAL TECHNOLOGIES INC. et al.								
1.	. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.								
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.								
3.	This report is also accompanied by ANNEXES, comprising:								
1	a. 🛘				eau) a total of sheets,				
	sheets of the description, claims and/or drawings which have been amended and are the basis of this and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of Administrative Instructions).								
		Doy	ets which supersedo and the disclosure in plemental Box.	e earlier sheets, but v n the international ap	which this Authority cons plication as filed, as ind	siders contain an amendment that goes icated in item 4 of Box No. I and the			
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplementa Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4.	. This report contains indications relating to the following items:								
	⊠ Bo	x No. I	Basis of the opini	on					
ĺ	□ Во	k No. II	Priority						
	☐ Box No. III Non-establishmer		nt of opinion with regard to novelty, inventive step and industrial applicability						
		k No. IV	Lack of unity of in	vention		-			
⊠ Box No. V Reasoned statement under Article 35(2) with regard to novelty applicability; citations and explanations supporting such state					, inventive step or industrial nent				
		No. VI	Certain document						
		No. VII		the international app					
	LJ Box	ox No. VIII Certain observations on the international application							
Date	Date of submission of the demand				Date of completion of the	s report			
24.0	5.2005				10.08.2005				
Name	and mai	ling addres mining au	s of the international		Authorized Officer				
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465				epmu d	Balmer, J-P				
		ax. +48 6	5 2055 - 14 00		Telephone No. +49 89 2	399-			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US2004/024949

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_	Box No. I	Basis of the report
1	. With regard filed, unless	d to the language , this report is based on the international application in the language in which it wa s otherwise indicated under this item.
	☐ inte	eport is based on translations from the original language into the following language, is the language of a translation furnished for the purposes of: ernational search (under Rules 12.3 and 23.1(b)) elication of the international application (under Rule 12.4) ernational preliminary examination (under Rules 55.2 and/or 55.3)
2.	With regard	I to the elements* of the international application, this report is based on <i>(replacement sheets which furnished to the receiving Office in response to an invitation under Article 14 are referred to in this originally filed" and are not annexed to this report):</i>
	Description,	Pages
	1-16	as originally filed
	Claims, Num	ıbers
	1-7	as originally filed
	☐ a seque	ence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
3.	☐ the d ☐ the c ☐ the d ☐ the s	endments have resulted in the cancellation of: lescription, pages claims, Nos. lrawings, sheets/figs equence listing <i>(specify)</i> : able(s) related to sequence listing <i>(specify)</i> :
1.	Supplementa the de the cl the dr the dr the dr	ort has been established as if (some of) the amendments annexed to this report and listed below a made, since they have been considered to go beyond the disclosure as filed, as indicated in the escription, pages aims, Nos. rawings, sheets/figs equence listing (specify):
		4 applies, some or all of these sheets may be marked "superseded "

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US2004/024949

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-7

Inventive step (IS)

Yes: Claims

No: Claims 1-7

Industrial applicability (IA)

Yes: Claims

1-7

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V.

1. The following documents are referred to in this communication:

D1: EP-A-0 461 775
D2: US-A-5 118 768
D3: US-A-5 270 410
D4: WO-A-94/06833
D5: US-B-6 399 837
D6: US-A-4 673 661
D7: EP-A-0 398 439
D8: US-A-5 362 416

- 2. The documents D1-D5 disclose the preparation of Ziegler-Natta procatalysts in oil suspension wherein the procatalyst has been prepared according the presently claimed process. In particular in the examples disclosed in these prior art documents, the drying is effected according conditions which are "milder" than the comparative example recited in the present invention (with similar or same diluent to be evaporated). The remaining diluent is not precisely determined in these prior art documents, but according to the diluent type and the drying conditions it is believed that the remaining diluent falls between the presently claimed range from 7 to 25 percent. Accordingly D1-D5 are considered as novelty destroying for the present claimed subject matter with regard to Article 33(2) PCT.
- 3. The document D6 discloses in examples Q-V the preparation of the same Ziegler -Natta procatalyst wherein the drying of the diluent (i.e. heptane with a boiling point of 98°C) is effected at room temperature under nitrogen circulation during one hour. The dried procatalyst of D6 is not suspended in oil, but this step is considered as customary practice mainly depending of the polymerization process used and the way the procatalyst is used and stored.

 Therefore D6 is also considered to be novelty destroying or at least is relevant to assess non-inventiveness for the present invention with regard to Article 33(2+3) PCT.